



# Wednesday Afternoon Lecture Series 2011—2012

3 p.m. in Masur Auditorium, Building 10

## September 2011



September 7, 2011  
Dr. Carlos J. Bustamante  
“Grabbing the Cat by the Tail: Discrete Steps by a DNA Packaging Motor and the Inter-Subunit Coordination in a Ring-ATPase”



September 14, 2011  
Dr. Ron DePinho  
“Genotoxic Stress Meets Mitochondria: Integrating Aging Mechanisms”



September 28, 2011  
Dr. Antonios G. Mikos  
“Biomaterials for Tissue Engineering”

## October 2011



October 5, 2011  
Dr. L. Mario Amzel  
“Activation of PI3Kalpha by Physiological Effectors and by Oncogenic Mutations: Structural and Dynamic Effects”



October 12, 2011  
Dr. Russ B. Altman  
“The Emerging Network of Data for Understanding the Interactions of Genes and Drugs”

## November 2011



November 2, 2011  
Dr. Kenneth Fischbeck  
“Developing Treatment for Hereditary Neuromuscular Disease”



November 16, 2011  
Dr. Jonathan Weissman  
“New Strategies for Decoding Genomes”



November 30, 2011  
Dr. Diane E. Griffin  
“Virus Clearance: It Isn't Easy”

## December 2011



December 7, 2011  
Gerald W. Hart  
“Bittersweet Roles of O-GlcNAcylation in Diabetes, Alzheimer's Disease and Cancer”



December 14, 2011  
Dr. Victor Corces  
“Throwing Transcription for a Loop: The Role of Chromatin Insulators in the 3D Nucleus”

For more information about WALS:

Web: <http://wals.od.nih.gov>

Twitter: @NIHWALS

Contact: [sarah.herrmann@nih.gov](mailto:sarah.herrmann@nih.gov)

Individuals with disabilities who need sign language interpreters and/or reasonable accommodation to participate in these lectures should contact the Federal Relay Service at 1-800-877-8339.

Requests should be made at least five days in advance of the event.

## January 2012



January 4, 2012  
Dr. David Botstein  
“Evolution and Cancer”



January 11, 2012  
Dr. Gary H. Gibbons  
“Cardiovascular Health Disparities: Integrating Genomic and Social Determinants”



*Special Monday Lecture*  
January 23, 2012  
Dr. Jacques Banchemareau  
“Will Dendritic Cell Subsets Help Us Address the Challenges of Cancer, Autoimmunity and Chronic Viral Diseases?”



January 25, 2012  
Dr. Anthony Atala  
“Regenerative Medicine: Current Concepts and Changing Trends”

## February 2012



February 1, 2012  
Dr. Bonnie Berger  
“Computational Biology in the 21st Century: Making Sense out of Massive Data”



February 8, 2012  
Dr. Karen Guillemin  
“Molecular Dialogues with the Microbiota: Insights from the Zebrafish Intestine”



February 15, 2012  
Dr. Lewis H. Kuller  
“The Obesity Epidemic: Why Have We Failed?”



February 22, 2012  
Dr. Wei Yang  
“Genome Integrity and Cancer Prevention: Molecular Mechanisms of DNA Repair”

## March 2012



*Special Thursday Lecture*  
March 1, 2012  
Dr. Jo Handelsman  
“Phalanx or Traitor? Impact of Gut Microbial Communities on Insect Health”



March 7, 2012  
Dr. Marjana Tomic-Canic  
“Wizardry of Tissue Repair and Regeneration: A Tale of Skin Cells When Their Magic Is All But Gone”



March 14, 2012  
Dr. C. Garrison Fathman  
“Understanding Peripheral Tolerance and Autoimmune Disease”



March 21, 2012  
Dr. Salvatore DiMauro  
“Mitochondrial DNA: Prometheus's Gift or Pandora's Box?”



*Special Thursday Lecture*  
March 22, 2012  
Dr. Quarraisha Abdool Karim  
“Tenofovir Gel: New Hope for HIV Prevention in Women”



March 28, 2012  
Dr. Marina Picciotto  
“What Doesn't Kill You Makes You Fatter: Neurobiological Mechanisms Underlying Effects of Nicotine on Addiction and Appetite”

## April 2012



April 4, 2012  
Dr. Melanie H. Cobb  
“Beta Cell ERKonomics”



April 11, 2012  
Dr. Stephen Goff  
“Retroviral Restriction Factors: ZAP, ZFP809, and New Aspects of Innate Immunity”



April 18, 2012  
Dr. Randy Jirtle  
“Epigenetics: How Genes and Environment Interact”



April 25, 2012  
Dr. Witold Filipowicz  
“Regulating the Regulators: Mechanisms Controlling Function and Metabolism of microRNAs”

## May 2012



May 2, 2012  
Dr. Martha Farah  
“Twenty-first Century Neuroscience: From Lab and Clinic to Home, School, and Office”



May 9, 2012  
Dr. Bernardo Sabatini  
“Self Stimulation—How Positive Feedback Loops Wire the Brain”



May 16, 2012  
Dr. Erich D. Jarvis  
“Of Mice, Birds, and Men: The Mouse Ultrasonic Song System has Features Once Thought Unique to Humans and Song-Learning Birds”



May 23, 2012  
Dr. Pawan Sinha  
“Learning to See Late in Life”



May 30, 2012  
Dr. Levi A. Garraway  
“Integrative and Functional Genomic Studies of Human Cancer”

## June 2012



June 6, 2012  
Dr. Peter J. Hotez  
“Antipoverty Vaccines for the World's Neglected Diseases”



June 13, 2012  
Dr. Craig B. Thompson  
“IDH Mutations: Oncometabolite Deregulation of Epigenetic Remodeling”



June 20, 2012  
Dr. Atul Butte  
“Translational Bioinformatics: Transforming 300 Billion Points of Data into Diagnostics, Therapeutics, and New Insights into Disease”